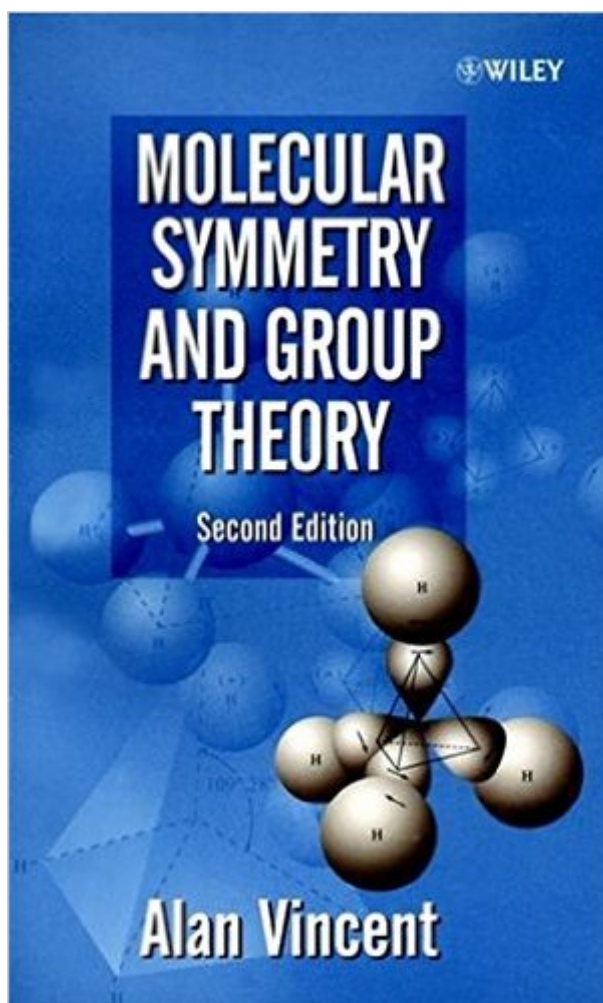


The book was found

Molecular Symmetry And Group Theory : A Programmed Introduction To Chemical Applications, 2nd Edition



Synopsis

This substantially revised and expanded new edition of the bestselling textbook, addresses the difficulties that can arise with the mathematics that underpins the study of symmetry, and acknowledges that group theory can be a complex concept for students to grasp. Written in a clear, concise manner, the author introduces a series of programmes that help students learn at their own pace and enable them to understand the subject fully. Readers are taken through a series of carefully constructed exercises, designed to simplify the mathematics and give them a full understanding of how this relates to the chemistry. This second edition contains a new chapter on the projection operator method. This is used to calculate the form of the normal modes of vibration of a molecule and the normalised wave functions of hybrid orbitals or molecular orbitals. The features of this book include: * A concise, gentle introduction to symmetry and group theory * Takes a programmed learning approach * New material on projection operators, and the calculation of normal modes of vibration and normalised wave functions of orbitals This book is suitable for all students of chemistry taking a first course in symmetry and group theory.

Book Information

Paperback: 202 pages

Publisher: Wiley; 2 edition (January 31, 2001)

Language: English

ISBN-10: 0471489395

ISBN-13: 978-0471489399

Product Dimensions: 5.4 x 0.7 x 8.4 inches

Shipping Weight: 11.5 ounces (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars [See all reviews](#) (13 customer reviews)

Best Sellers Rank: #100,030 in Books (See Top 100 in Books) #11 in [Books > Science & Math > Mathematics > Pure Mathematics > Group Theory](#) #12 in [Books > Science & Math > Chemistry > Molecular Chemistry](#) #17 in [Books > Science & Math > Chemistry > Inorganic](#)

Customer Reviews

I bought this book with no prior knowledge of molecular symmetry nor the mathematics of group theory. With only the idea of stereochemistry and matrix algebra, I was hoping that this book would help pave the way for my inorganic chemistry course over the summer. The first few pages (about 6-10 pages in) started out quite nicely, you get a comfortable feel for the author and his teaching style- almost like a parent holding your hand and guiding you gently through the basic elements of

symmetry. Aside from a few vaguely conveyed ideas (improper rotation was not very clear), you start to get a hang of the idea and feel comfortable with the author and his pedagogy. BUT..... once you reach the 2nd chapter about point groups, it's as though the author left you in the middle of a busy high-way, blindfolded, with little to no explanation why such a point group contains such elements, etc. and how, or even why he grouped it such a way! All the new concepts in chapter 2 were just thrown at you as though you are the master of molecular symmetry. This would be alright if the book haven't been a step-by-step guide to Molecular symmetry and Group Theory, so basically when I got stuck with Chapter 2, I had NO clue what chapter 3 was talking about and because I don't know chapter 3, I could forget about Chapter 4, and so on... Unfortunate! That's one word I want to convey about this book. It's unfortunate that the author just got tired of explaining better after chapter 1, and assumed that everyone is the master of molecular symmetry after an excellent introduction. It got my hopes up and let it down as soon as I got to chapter 2. If this is the "easiest" way to learn molecular symmetry, I don't know how people learn it in the past.

[Download to continue reading...](#)

Molecular Symmetry and Group Theory : A Programmed Introduction to Chemical Applications, 2nd Edition
Molecular Symmetry and Group Theory: A Programmed Introduction to Chemical Applications
Symmetry: An Introduction to Group Theory and Its Applications (Dover Books on Physics)
Number, Shape, & Symmetry: An Introduction to Number Theory, Geometry, and Group Theory
Molecular Symmetry and Group Theory Chemical Applications Of Group Theory, 3Rd Ed
Introduction to Molecular Symmetry (Oxford Chemistry Primers)
The Joy of Swift: How to program iOS applications using Apple Swift even if you've never programmed before By Douglas J. Gould PhD
- Sidman's Neuroanatomy: A Programmed Learning Tool (2nd Edition) (10/28/07)
Sidman's Neuroanatomy: A Programmed Learning Tool (Point (Lippincott Williams & Wilkins)) 2nd (second) by Gould PhD, Douglas J., Brueckner PhD, Jennifer K. (2007) Spiral-bound
The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering
Contemporary Theory of Chemical Isomerism (Understanding Chemical Reactivity)
Chemical Engineering Design and Analysis: An Introduction (Cambridge Series in Chemical Engineering)
Flying Tigers Colors: Camouflage and Markings of the American Volunteer Group and the USAAF 23rd Fighter Group, 1941-1945 (Warplane Color Gallery)
Group Techniques for Program Planning: A Guide to Nominal Group and Delphi Processes
Brief Group Treatment: Practical Training for Therapists and Counselors (Group Counseling)
Flashcard Study System for the ACE Group Fitness Instructor Exam: ACE Test Practice Questions & Review for the American Council on Exercise
Group Fitness Instructor Exam
EROTICA: BUNDLE - TABOO BOOKS (SWINGERS, CUCKOLD, INTERRACIAL,

SHARING, THREESOME, HOTWIFE SHORT SEX STORIES COLLECTION, BDSM GROUP,
SEXY FF MM GROUP SERIES) Symmetry and Spectroscopy: An Introduction to Vibrational and
Electronic Spectroscopy (Dover Books on Chemistry) Free Energy Calculations: Theory and
Applications in Chemistry and Biology (Springer Series in Chemical Physics)

[Dmca](#)